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## RAW SEQUENCE LISTING

DATE: 03/13/2002

PATENT APPLICATION: US/10/082,018

TIME: 10:16:31

Input Set : N:\Crf3\RULE60\10082018.raw

Output Set: N:\CRF3\03132002\J082018.raw

1 <110> APPLICANT: CHEN, Li How  
2 MEADE, Henry  
3 <120> TITLE OF INVENTION: NOVEL MODIFIED MSP-1 NUCLEIC ACID SEQUENCES AND  
4 METHODS FOR INCREASING mRNA LEVELS AND PROTEIN  
5 EXPRESSIONS IN CELL SYSTEMS  
6 <130> FILE REFERENCE: 107.637.121A  
7 <140> CURRENT APPLICATION NUMBER: 10/082,018  
8 <141> CURRENT FILING DATE: 2002-02-20  
10 <150> PRIOR APPLICATION NUMBER: US/09/175,684  
11 <151> PRIOR FILING DATE: 1998-10-20  
13 <160> NUMBER OF SEQ ID NOS: 8  
14 <170> SOFTWARE: PatentIn Ver. 2.0  
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17 <211> LENGTH: 1065  
18 <212> TYPE: DNA  
19 <213> ORGANISM: preferably, a bacterium, virus, or parasite  
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23 gtgatgacct tcaacgtgaa cgtgaaggat atcctgaaca gccggttcaa caagcgggag 180  
24 aacttcaaga acgtgctgga gagcgatctg atcccctaca aggatctgac cagcagcaac 240  
25 tacgtggtca aggatcccta caagttcctg aacaaggaga agagagataa gttcctgagc 300  
26 agttacaact acatcaagga tagcattgat accgatatca acttcgcca caagaagtac 360  
27 ggatactaca agatcctgtc cgagaagtac aagagcgatc tggattcaat caagaagtac 420  
28 atcaacgata agcagggaga gaacgagaag tacctgccct tcctgaacaa catcgagacc 480  
29 ctgtacaaga ccgtcaacga taagattgat ctgttcgtga tccacctgga ggccaaggtc 540  
30 ctgaactaca catatgagaa gagcaacgtg gaggtcaaga tcaaggagct gaattacctg 600  
31 aagaccatcc aggataagct ggccgatttc aagaagaaca acaacttcgt cgggatcgcc 660  
32 gatctgagca ccgattacaa ccacaacaac ctgctgacca agttcctgag caccgggtatg 720  
33 gtcttcgaaa acctggccaa gaccgtcctg agcaacctgc tggatgggaa cctgcagggg 780  
34 atgctgaaca tcagccagca ccagtgtgtg aagaagcagt gtccccagaa cagcgggtgt 840  
35 ttcagacacc tggatgagag agaggagtgt aagtgtctgc tgaactacaa gcaggaaggt 900  
36 gataagtgtg tggaaaaccc caatcctact tgtaacgaga acaatggtgg atgtgatgcc 960  
37 gatgccaaagt gtaccgagga ggattcaggg agcaacggga agaagatcac ctgtgagtgt 1020  
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43 <213> ORGANISM: preferably, a bacterium, virus, or parasite  
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46 ttatatattaa aaccttttagc aggtgtttat agaagtttaa aaaaacaatt agaaaataac 120  
47 gttatgacat ttaatgttaa tgtaaggat attttaaatt cacgatttaa taaacgtgaa 180

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51      ggatattata aaatattatc cgaaaaatat aaatcagatt tagattcaat taaaaaatat 420
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55      aaaacaattc aagacaaatt ggcagatttt aaaaaaaata acaatttcgt tggaattgct 660
56      gatttatcaa cagattataa ccataataac ttattgacaa agttccttag tacaggtagt 720
57      gtttttgaaa atcttgctaa aaccgtttta tctaatttac ttgatggaaa cttgcaaggt 780
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75 <212> TYPE: DNA
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82 <211> LENGTH: 60
83 <212> TYPE: DNA
84 <213> ORGANISM: preferably, a bacterium, virus, or parasite
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90 <212> TYPE: DNA
91 <213> ORGANISM: preferably, a bacterium, virus, or parasite
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95 <210> SEQ ID NO: 7
96 <211> LENGTH: 31
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99 <400> SEQUENCE: 7
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103 &lt;211&gt; LENGTH: 1142

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105 &lt;213&gt; ORGANISM: preferably, a bacterium, virus, or parasite

106 &lt;400&gt; SEQUENCE: 8

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109 ctggcaggag tctacaggag cctgaagaag cagctggaga acaacgtgat gaccttcaac 180
110 gtgaacgtga aggatatacct gaacagcagg ttcaacaaga gggagaactt caagaacgtg 240
111 ctggagagcg atctgatccc ctacaaggat ctgaccagca gcaactacgt ggtcaaagat 300
112 ccctacaagt tcctgaacaa ggagaagaga gataagttcc tgagcagtta caattacatc 360
113 aaggatagca ttgacaccga tatcaacttc gccaacgatg tcctgggata ctacaagatc 420
114 ctgtccgaga agtacaagag cgatctggat agcatcaaga agtacatcaa cgataagcag 480
115 ggagagaacg agaagtacct gcccttcctg aacaacatcg agaccctgta caagaccgtc 540
116 aacgataaga ttgatctggt cgtgatccac ctggaggcca aggtcctgca gtacacatat 600
117 gagaagagca acgtggaggt caagatcaag gagctgaatt acctgaagac catccaggat 660
118 aagctggccg atttcaagaa gaacaacaac ttctgctgaa tcgccgatct gagcaccgat 720
119 tacaaccaca acaacctgct gaccaagttc ctgagcaccg gaatggtctt cgaaaacctg 780
120 gccaaagaccg tcctgagcaa cctgctggat ggaaacctgc agggaatgct gcagatcagc 840
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122 gagagggagg agtgcaagtg cctgctgaac tacaagcagg aaggagataa gtgtgtggaa 960
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124 gaggaggatt caggaagcaa cggaaagaag atcacctgcg agtgtaccaa gcctgattct 1080
125 tatccactgt tcgatggtat tttctgcagt caccaccacc accaccacta actcgaggat 1140
126 cc
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